

Claims

- [c1] A method of controlling an automotive vehicle with a yaw stability control system and a trailer comprising:
determining a presence of a trailer; changing a side slip angle parameter threshold of the vehicle to a modified side slip parameter threshold in response to the trailer signal; and
controlling the yaw stability control system in response to the modified side slip angle threshold.
- [c2] A method as recited in claim 1 wherein changing a side slip angle parameter threshold comprises reducing a side slip parameter threshold.
- [c3] A method as recited in claim 1 wherein determining a presence of a trailer comprises determining a presence of a trailer in response to a manually activated switch.
- [c4] A method as recited in claim 1 wherein determining a presence of a trailer comprises determining a presence of a trailer in response to a trailer sensor.
- [c5] A method as recited in claim 4 wherein the trailer sensor comprises a hitch sensor.

- [c6] A method as recited in claim 4 wherein the trailer sensor comprises a reverse aid sensor.
- [c7] A method as recited in claim 4 wherein the trailer sensor comprises a harness current detector.
- [c8] A method as recited in claim 1 wherein the side slip angle parameter threshold comprises a side slip angle.
- [c9] A method as recited in claim 1 wherein the side slip angle parameter threshold comprises a side slip angle derivative threshold.
- [c10] A control system for a vehicle comprising:
 - a yaw control system having a side slip angle threshold;
 - a trailer;
 - means to generate a trailer signal in response to a presence of a trailer;
 - a controller changing the side slip angle parameter threshold of the vehicle to a modified side slip parameter threshold in response to the trailer signal, said yaw stability control system operating in response to the modified side slip angle.
- [c11] A system as recited in claim 10 wherein said means to generate a trailer signal in response to a presence of a trailer comprises a hitch sensor.

- [c12] A system as recited in claim 10 wherein said means to generate a trailer signal, in response to a presence of a trailer comprises a reverse aid sensor.
- [c13] A system as recited in claim 10 wherein said means to generate a trailer signal in response to a presence of a trailer comprises an ultrasonic sensor.
- [c14] A system as recited in claim 10 wherein said means to generate a trailer signal in response to a presence of a trailer comprises a camera.